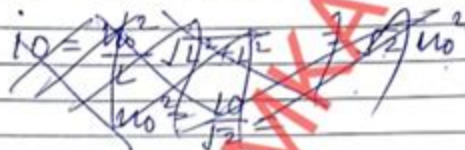


$$a_\theta = \frac{DV_\theta}{Dt} + \frac{V_\theta V_r}{r} = \frac{\partial V_\theta}{\partial t} + V_r \frac{\partial V_\theta}{\partial r} + \frac{V_\theta}{r} \frac{\partial V_r}{\partial \theta} + \frac{V_\theta}{r} \frac{\partial V_\theta}{\partial \theta}$$

$$a_r = \frac{DV_r}{Dt} - \frac{V_\theta^2}{r} = \frac{\partial V_r}{\partial t} + V_r \frac{\partial V_r}{\partial r} + \frac{V_\theta}{r} \frac{\partial V_r}{\partial \theta} + \frac{V_\theta}{r} \frac{\partial V_\theta}{\partial \theta} - \frac{V_\theta^2}{r}$$

$$u = u_0 \frac{x}{L}, \quad v = -u_0 \frac{y}{L}, \quad w = 0$$

$$|a| = 10 \quad x, y = L, L$$



$$10 = \frac{u_0^2}{L^2} \sqrt{x^2 + y^2}$$

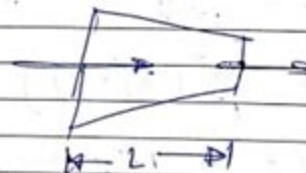
$$10 = \frac{u_0^2}{L^2} \sqrt{2} L \quad u_0^2 = \frac{10L}{\sqrt{2}}$$

$$u_0 = \left[\frac{10L}{\sqrt{2}} \right]^{1/2} = \left[\frac{10 \times 0.5}{\sqrt{2}} \right]^{1/2}$$

$$u_0 = 1.88$$

(7) Steady flow

$$\vec{v} = u_0 \left(1 + \frac{2x}{L} \right) \hat{i}$$



$$a = u \frac{\partial u}{\partial x} = u_0 \left(1 + \frac{2x}{L} \right) \frac{u_0}{L}$$

$$a_x = \frac{2u_0^2}{L} \left(1 + \frac{2x}{L} \right)$$

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